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## ASTM A516 / A516M - 03 Standard Specification for Pressure Vessel Plates, Carbon Steel, for Moderate- and Lower-Temperature Service

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### Abbreviation

ASTM A516 / A516M - 03

### Valid from

10/09/2003

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### Information provider

American Society of Testing and Materials

### Author

American Society of Testing and Materials

### Information type

ASTM Standard

### Format

PDF

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### Cited By

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### Description

This specification covers carbon steel plates intended primarily for service in welded pressure vessels where improved notch toughness is important.

### Scope

This specification covers carbon steel plates intended primarily for service in welded pressure vessels where improved notch toughness is important.

Plates under this specification are available in four grades having different strength levels as follows:

Grade U.S. [SI]	Tensile Strength, ksi [MPa]
55 [380]	55-75 [380-515]
60 [415]	60-80 [415-550]
65 [450]	65-85 [450-585]
70 [485]	70-90 [485-620]

The maximum thickness of plates is limited only by the capacity of the composition to meet the specified mechanical property

requirements; however, current practice normally limits the maximum thickness of plates furnished under this specification as follows:

Grade U.S. [SI]	Maximum Thickness, in. [mm]
55 [380]	12 [305]
60 [415]	8 [205]
65 [450]	8 [205]
70 [485]	8 [205]

The values stated in either inch-pound units or SI units are to be regarded separately as standard. Within the text, the SI units are shown in brackets. The values stated in each system are not exact equivalents; therefore, each system must be used independently of the other. Combining values from the two systems may result in nonconformance with the specification.

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- [BS EN 1759-1:2004](#)

ASTM A516 / A516M - 03 is cited by BS EN 1759.1:2004 Flanges and their joints. Circular flanges for pipes, valves, fittings and accessories, class-designated. Steel flanges, NPS 1/2 to 24.

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